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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/811,074	03/26/2004	Feng Pan	SNDK.307US1	8070	
36257	7590 04/14/2005		EXAMINER		
PARSONS HSUE & DE RUNTZ LLP			ZWEIZIG, JEFFERY SHAWN		
655 MONTGOMERY STREET SUITE 1800 SAN FRANCISCO, CA 94111			ART UNIT	PAPER NUMBER	
			2816		
			DATE MAILED: 04/14/2005	DATE MAILED: 04/14/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
				6				
Office Action Summary		10/811,074	PAN, FENG	Can				
		Examiner	Art Unit					
		Jeffrey S. Zweizig	2816					
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the d	correspondence addres	SS				
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period of the toreply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	mely filed ys will be considered timely. the mailing date of this commu	unication.				
Status								
1) 又	Responsive to communication(s) filed on <u>26 M</u>	larch 2004.						
	This action is FINAL . 2b)⊠ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5)□ 6)⊠ 7)⊠	 4) Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-25 is/are rejected. 7) Claim(s) 26 and 27 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Applicat	ion Papers							
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>26 March 2004</u> is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	a)⊠ accepted or b)⊡ objected t drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1	• •				
Priority (under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inform Pape	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date 3/26/04 2/3/04 1/23/04	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:		2)				

Specification

1. The specification should be amended to include the patent number of the parent application 10/328,686.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 15-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cave et al. (5,563,779) in view of Applicant's Prior Art.
- Fig. 2 discloses charge pump 12, a detector 16 and means for reducing capacitance 33 performing the method recited in claim 15. Fig. 2 does not appear to disclose a wordline application as recited in claim 15, however, Applicant's Background of the Invention points out that non-volatile memory wordlines require a voltage the is both constant and higher than the provided supply voltage. It would have been obvious to one of ordinary skill in the art to implement the circuit of Fig. 2 to supply a wordline for the benefit of supplying a high constant voltage. Claim 15 is obvious.

Wordlines inherently have leakage currents. Fig. 2 maintains its output against varying loads and, therefore, would maintain an output equal to the leakage current after charging the wordline. Claim 16 is obvious.

Application/Control Number: 10/811,074

Art Unit: 2816

Further shown are two or more capacitors 34/36/38/40 and disabling means 42/44/46 as recited in claim 17. Claim 17 is obvious.

The reduction in capacitance would result in a reduction of voltage within the stage as recited in claim 18. Claim 18 is obvious.

Again, the reduction in capacitance would result in a reduction of voltage within the stage as recited in claims 19-21. Claims 19-21 are otherwise obvious for the reasons above.

Claims 22 and 23 are anticipated for the reasons above.

Further shown is a selectable first capacitor 36 for providing a first current to charge the output and a second capacitor for providing a second current to maintain the output as recited in claims 24 and 25.

4. Claims 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yokomizo et al. (6,400,211) in view of Applicant's Prior Art.

Fig. 1 discloses charge pump 3, a detector R1/R2 and a reducer 2 performing the method recited in claim 19. Fig. 1 does not appear to disclose a wordline application as recited in claim 19, however, Applicant's Background of the Invention points out that non-volatile memory wordlines require a voltage the is both constant and higher than the provided supply voltage. It would have been obvious to one of ordinary skill in the art to implement the circuit of Fig. 1 to supply a wordline for the benefit of supplying a high constant voltage. Claim 19 is obvious.

A reduction in voltage causes a reduction in current output as recited in claim 20.

Application/Control Number: 10/811,074 Page 4

Art Unit: 2816

Wordlines inherently have leakage currents. Fig. 1 maintains its output against varying loads and, therefore, would maintain an output equal to the leakage current after charging the wordline. Claim 21 is obvious.

Conclusion

- 5. Claims 26 and 27 are objected to as being dependent upon a rejected base claim, but may be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey S. Zweizig whose telephone number is (571) 272-1758. The examiner can normally be reached on Monday thru Thursday 6:00 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/811,074

Art Unit: 2816

Page 5

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Jeffrey S. Zweizig Primary Examiner Art Unit 2816